

# Alaska Scientific Crime Detection Laboratory

## DataMaster Evaluation Form

Issued: 05/15/2020  
Effective: 05/15/2020

Version: DMEF 2020 R0  
Status: Active

Instrument # 100689

Start Date: 07/12/21

Analysts: Derek Watten

Reason for instrument evaluation

Refurbished by manufacturer, repaired for static analysis error

Visual Inspection

Clean

Replace missing screws

Cermetex Box is secure

Ensure modem cable present

Gas Valve upright or secured to wall

All tubing and connections are secure

O-ring inspection and ensure 2 O-rings in replacement bag

Troubleshooting/Repair

Source block is tight, 5 way valve feels Ok, filter wheel assembly feels smooth, controller board modification is present, mirror blocks taped. Wires to filter solenoid are peeling. Repaired with electrical tape.

Tape attaching mass air flow sensor to snubber has come off. Replaced with new double-sided tape.

VOC (attached)

Internal Standard value  $\leq 3.00\%$

Verify software version

Return to Factory for Repair

Ready for Calibration

Ready for Certification

Proceed to Close Out

End Date: 07/12/21

# VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100689

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 07/12/2021

## External Standard Test Values

### EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.63: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022  
TANK PRESSURE: 1193 psi

BLANK TEST	0.000	15:31
INTERNAL STANDARD ✓	VERIFIED	15:31
Xq = 0.085 (1.61%)		
EXTERNAL STANDARD	0.079	15:31
X[1] = 0.0788 (-0.0009) (-0.0027)		
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.079	15:33
X[1] = 0.0787 (-0.0006) (-0.0023)		
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.079	15:34
X[1] = 0.0789 (-0.0002) (-0.0023)		
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.078	15:35
X[1] = 0.0785 (-0.0008) (-0.0018)		
BLANK TEST	0.000	15:36
EXTERNAL STANDARD	0.079	15:36
X[1] = 0.0788 (-0.0001) (-0.0021)		
BLANK TEST	0.000	15:37

Average = 0.0788  
Std Dev = 0.0004

## Diagnostic Check

### VERSIONS ✓

DMT: 3.02 ✓  
PIC: 3.07  
Modem: 2.6  
Questions: 2.2

### TEMPERATURES

Sample Chamber = 48.6°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 44.0°C	PASSED
(38.0°C - 50.0°C)	

### SETTINGS

Lamp Voltage = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Cooler Voltage = 1.65 V	PASSED
(0.99 V - 2.31 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 505 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.6 in	

### PUMP INFO

Flow Rate = 4.322 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

### DETECTOR INFO

PUMP ON	PASSED
(0.005 V <= 0.010 V)	
PUMP OFF	PASSED
(0.002 V <= 0.010 V)	

### FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD ✓	PASSED
Xq = 0.085 1.71% (0.00% - 4.00%)	

SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dmt: 100689

Date: 07/12/2021  
Time: 15:40:28

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
DEREK WALTON  
OPERATOR'S #: 9508

DEPT/AGENCY:  
NON-DRINKING SUBJECT  
CASE/REPORT: XXXX  
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.63: 0.079  
LOT #: AG018102  
EXPIRATION: 06/29/2022

DIAGNOSTIC CHECK	PASSED	15:41
BLANK TEST	0.000	15:41
INTERNAL STANDARD	VERIFIED	15:41
EXTERNAL STANDARD	0.079	15:41
BLANK TEST	0.000	15:42
SUBJECT SAMPLE (Vol=3.54L)	0.000	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.079	15:44
BLANK TEST	0.000	15:45

